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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE APPLICATION NO. 10959-013-999 3642 10/622,675 07/17/2003 Paul F. Predki EXAMINER 20583 12/12/2005 MARTIN, PAUL C JONES DAY **222 EAST 41ST ST** PAPER NUMBER ART UNIT NEW YORK, NY 10017 1655

DATE MAILED: 12/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/622,675	PREDKI ET AL.
	Examiner	Art Unit
	Paul C. Martin	1655
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATION R 1.136(a). In no event, however, may a reply be string a poly and will expire SIX (6) MONTHS frogrammer, cause the application to become ABANDON tatute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on _ This action is FINAL. 2b) □ Since this application is in condition for all closed in accordance with the practice und	This action is non-final. owance except for formal matters, p	
Disposition of Claims		
4) ⊠ Claim(s) 1-23 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-23 are subject to restriction and	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to by the the drawing(s) be held in abeyance. Some crection is required if the drawing(s) is constant.	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s)	4) 🔲 Interview Summa	OR (PTO 412)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date) Paper No(s)/Mail	

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1, 4-10, and 15-20, drawn to a method for predicting at least part of a binding site of a target protein, classified in class 435, subclass 7.1 for example.
- II. Claims 2, 4-6, and 11-20, drawn to a method for predicting at least part of a binding site in a target protein, classified in class 435, subclass 7.1 for example.
- III. Claims 3, 4-6, and 11-20, drawn to a method for predicting at least part of a binding site in a target protein, classified in class 435, subclass 7.1 for example.
- IV. Claims 21-23, drawn to a computer implemented method for predicting at least part of a binding site in a target protein, classified in class 379, subclass 221.06 for example.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II-IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01).

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In the instant case the different inventions are directed to methods that are both physically and functionally distinct, and the particulars of one Group are not required for another. For example, Group I relies upon the broad comparison of a plurality of amino acid sequences in a region of a target protein with a plurality of amino acid sequences in a region of a cross reactive protein and identifying an amino acid sequence with the highest average homology in the first plurality. Groups II and III involve steps and conditions not found in Groups I or IV, for example the step of evaluating the degree of homology for each n-amino acid window of a plurality of amino acid windows of a target protein, when n is a number between 6 and 25. Group IV involves a computer system, hardware and programs that are physically and functionally distinct methods not found in any of Groups I-III. Group III involves the method step of assigning a score for each n-amino acid window comparison, wherein the score reflects the degree of sequence homology between two compared n-amino acid windows, a functionally distinct method step not found in any of Groups I, II, or IV.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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This application contains claims directed to the following patentably distinct genus of the claimed invention:

- 1) molecule
- 2) target protein
- 3) cross-reactive protein

Applicant is required under 35 U.S.C. 121 to elect a **single** disclosed species of the above genus 1-3, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claims 1-20 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul C. Martin whose telephone number is 571-272-3348. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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